BURNER FLAME STABILIZERS

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Purpose:

Out-Of-Service Operation

-Minimize Overheating: Sets swirel factor and adverse pressure gradient such that hot flue gas is not sucked back into burner and windbox.

-Minimize Burner Line Fires: With a proper swirel number, flue gas recirculation back into the burner is eliminated. This recirculation gas causes nozzle tip pluggage which is one of the causes of out-of-service burner line fixes.

In-Service Operation

-Improve Flame Stability (thru load range):

-Reduce Severity of Eyebrows:

-No Adverse Effects to:

Scanner Operation NOx levels

LOI levels 02/CO levels

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teet

Reduce Backplate Temperature Requirements:

-Extend life of burner

do divident Up Improve Bbiler Performance:

-Reduce cooling air flow requirements

Wo stabilizers we know what the expecting and trons

John Jacorges 11 goding

- but has not made any changes to conditions.

Changes made purely for 1350F operation (Harnel exposers)

Based on Model rej

. Will not function

wh existing spin vanes

. Flood blade

. boster back

Basis: Intervalance I Take